

FIG. 3A

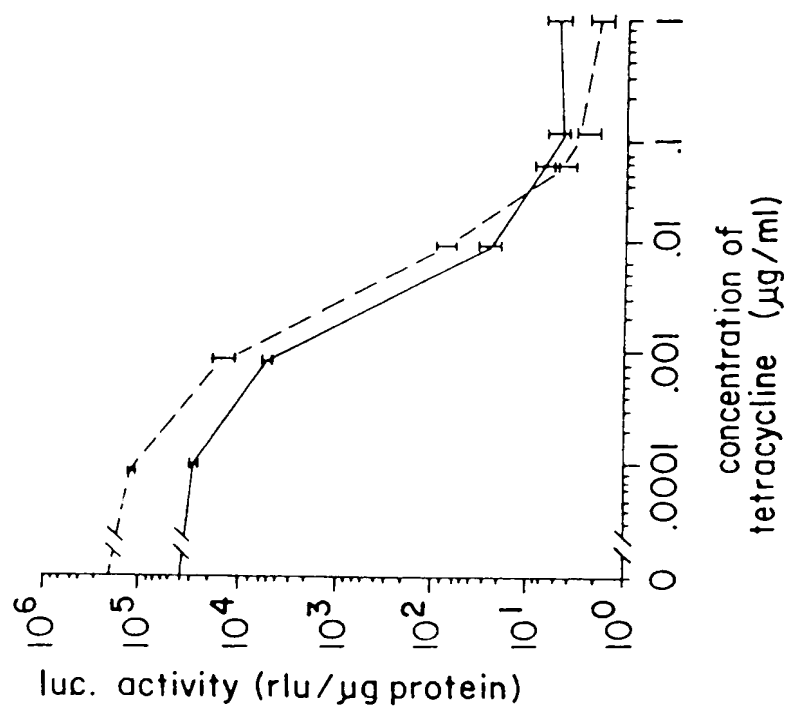
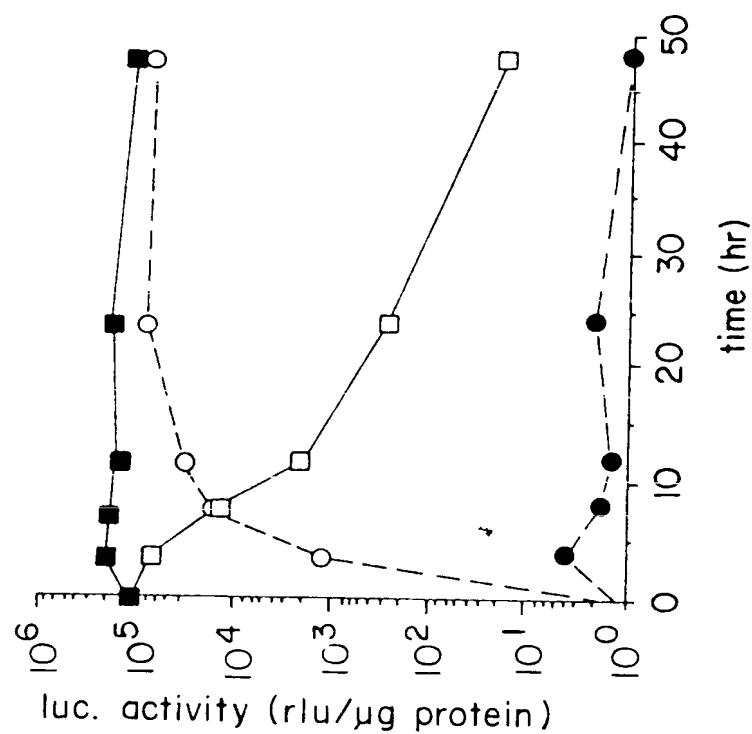


FIG. 3B



ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Gly Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Glu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAG GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Trp Gln Asp Phe Leu Arg Asn Lys Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 4A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA	GAG	AAT	GCA	TTA	TAT	GCA	CTC	AGC	GCT	GTG	GGG	CAT	TTT	ACT	TTA	GGT	TGC
Leu	Glu	Asn	Ala	Leu	Tyr	Ala	Leu	Ser	Ala	Val	Gly	His	Phe	Thr	Leu	Gly	Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT	GAT	AGT	ATG	CCG	CCA	TTA	TTA	CGA	CAA	GCT	ATC	GAA	TTA	TTT	GAT	CAC	CAA
Thr	Asp	Ser	Met	Pro	Pro	Leu	Leu	Arg	Gln	Ala	Ile	Glu	Leu	Phe	Asp	His	Gln

Fig. 4B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCC GCG TAC AGC CGC GCG CGT ACG AAA AAC
Lys Gln Leu Lys Cys Glu Ser Gly Ser Ala Tyr Ser Arg Ala Arg Thr Lys Asn

AAT TAC GGG TCT ACC ATC GAG GGC CTG CTC GAT CTC CCG GAC GAC GCC CCC
Asn Tyr Gly Ser Thr Ile Glu Gly Leu Leu Asp Leu Pro Asp Asp Ala Pro

GAA GAG GCG GGG CTG GCG GCT CCG CGC CTG TCC TTT CTC CCC GCG GGA CAC ACG
Glu Glu Ala Gly Leu Ala Ala Pro Arg Leu Ser Phe Leu Pro Ala Gly His Thr

CGC AGA CTG TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC
Arg Arg Leu Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His

Fig. 4C

TTA GAC GGC GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT
Leu Asp Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp

CTG GAC ATG TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC
Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp

TCC GCC CCC TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG ATG TTT
Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Met Phe

ACC GAT CCC CTT GGA ATT GAC GAG TAC GGT GGG TAG
Thr Asp Pro Leu Gly Ile Asp Glu Tyr Gly Gly *

Fig. 4D

ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Glu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Clu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAC GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Trp Gln Asp Phe Leu Arg Asn Asn Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 5A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 5B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Leu Ile Ile Cys Gly Leu Glu

AAA	CAA	CTT	AAA	TGT	GAA	AGT	GGG	TCT	GAT	CCA	TCG	ATA	CAC	ACG	CGC	AGA	CTG
Lys	Gln	Leu	Lys	Cys	Glu	Ser	Gly	Ser	Asp	Pro	Ser	Ile	His	Thr	Arg	Arg	Leu

TCG	ACG	GCC	CCC	CCG	ACC	GAT	GTC	AGC	CTG	GGG	GAC	GAG	CTC	CAC	TTA	GAC	GGC
Ser	Thr	Ala	Pro	Pro	Thr	Asp	Val	Ser	Leu	Gly	Asp	Glu	Leu	His	Leu	Asp	Gly

GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT CTG GAC ATG
Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC TCC GCC CCC
Leu Gly Asp Gly Asp Ser Pro Gly pro Gly Phe Thr Pro His Asp Ser Ala Pro

Fig. 5C

TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT ACC GAT GCC
Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Gln Met Phe Thr Asp Ala

CTT GGA ATT GAC GAG TAC GGT GGG TTC TAG
Leu Gly Ile Asp Glu Tyr Gly Gly Phe *

Fig 5D

GAATTCTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTC
CCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGT
GAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCC
TATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGA
AAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGCTCGGTACCCGGGT
CGAGTAGGCGTGTA CGGTGGAGGCCCTATATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGC
CTGGAGACGCCATCCACGCTGTTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGC
GG

Fig. 6

GAATTCCTCGACCCGGGTACCGAGCTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTA
AACTCGAC TTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTCT
ATCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAA
CTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTAT
CACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACT
CGAGTAGGCGGTGTACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGC
CTGGAGACGCCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCCGGGACCGATCCAGCCTCCGC
GG

Fig. 7

GAGCTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTC
TATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAA
ACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTA
TCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAAC
TCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGAGATCCGGCGAATTTCGAAC
ACGCAGATGCAGTCGGGGCGCGGTCCGAGGTCCACTTCGCATATTAAAGGTGACGCCGTGTGG
CCTCGAACACCGAG

Fig. 8

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGCTCGGTACCCGGGTCGAGTA
GGCGTGACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGTACCTCCATAGAAAGACACCGGGACCGATCCAGCCTCCGCGGCCCC
GAATTCGAGCTCGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAAT
TCCAGGAGGTGGAGATCCGCGGGTCCAGCCAAACCCACACCCATTTCCTCCTCCTGCCCC
TATATCCCGGCACCCCTCCTCCTAGCCCTTTCCCTCCTCCCGAGAGACGGGGGAGGAGAAAAG
GGGAGTT'AGGTCGACATGACTGAGCTGAAGGCAAAGAACCTCGGGCTCCCCACGTGGCGGGC
GGCGGCCCTCCCCACCGAGGTGGATCCAGCTCCTGGGTGCGCCCGGACCCCTGGCCCCCTTCC
AGGGGAGCCAGACCTCAGAGGCCCTCGTCTGTAGTCTCCGCCATCCCCATCTCCCTGGACGGGTT

Fig. 9A

GCTCTTCCCCGGCCCTGT CAGGGGCAGAAACCCACAGACGGAGACGCAGGACCCACCGTCG
TTGTCAGACGTGGAGGGCGCATTTCTTGGAGTCGAAGCCCCGAGGGGCAGGAGACAGCAGCT
CGAGACCTCCAGAAAAGACAGCGGCCCTGCTGGACAGTGTCTCGACACGCTCCTGGCGCCCTC
GGGTCCCCGGCAGAGCCACGCCAGCCCTGCCACCTGCGAGGCCATCAGCCCCGTGCTGTGTT
GGCCCCGACCTTCCCCGAAGACCCCCGGGCTGCCCCCGCTACCAAAGGGTGTGCGCCCGCTCA
TGAGCCGACCCGAGGACAAGGCAGGCGACAGCTCTGGGACGGCAGCGGCCACAAGGTGCTGCC
CAGGGGACTGTACCATCCAGGCAGCTGTGCTCCCCCTCTCTGGGAGCCCTCACTGGCCGGCA
GTGAAGCCATCCCCGCAGCCCGCTGCGGTGCAGGTAGACGAGGAGACAGCTCCGAATCCGAGG
GCACCGTGGCCCGCTCCTGAAGGGCCAACTCGGGCACTGGGAGGCACGGCGGCCCGGAGGAGG
AGCTGCCCCCGTCTGCGTCTGGAGCGGCCGAGGCGTGGCCCTTGTCCTCCCAAGGAAGATTCT
CGCTTCTCGGCGCCAGGGTCTCCTTGGCGGAGCAGGACGCGCGGTGGCGCCTGGGGCGCTCCC
CGCTGGCCACCTCGGTGGTGATTTCATCCACGTGCCCCATCCTGCCTCTCAACCACGCTTTCTCT
GGCACCCCGCACCGCAGCTGTGAGGGGAGAGCTACGACGGCGGGCGCGCGGCCGCCAGC

Fig. 9B

CCCTTCG, CCCGCAGCGGGCTCCCCCTCTGCCTCGTCCACCCCTGTGGGGCGGCGACTTCC
CCGACTGCACCTACCCGCCCGACGCCAGCCCAAAGATGACGGTTCCCCCTCTACGGCGACTT
CCAGCCGCCGCCCTCAAGATAAAGGAGGAGGAAGCCCGGAGGCCGCGCGCTCCCCCG
CGTACGTACCTGGTGGCTGGTGCAAAACCCGCCGCTTCCCGGACTTCCAGCTGGCAGCGCCGC
CGCCACCCTCGCTGCCGCCCTCGAGTGCCCTCGTCCAGACCCGGGAAGCGGGTGGCGGCTC
CCCAGGCAGTGCCCTCCGTCTCCTCCTCGTCCGCGGTGACCCCTGGAGTGCATCCTGTAC
AAGGCAGAAAGCGCGCGCCCGCCAGCAGGGCCCCCTTCGCGCCGCTGCCCTGCAAGCCTCCGGCG
CCGGCGCCTGCCTGCTCCCGCGGACGGCCTGCCCTCCACCTCCGCCCTCGGGCGCAGCCGCCGG
GGCCGCCCTGCGCTCTACCCGACGCTCGGCCTCAACGGACTCCCGCAACTCGGCTACCAGGCC
GCCGTGCTCAAGAGGGCCTGCCGCAGGTCTACACGCCCTATCTCAACTACCTGAGCCGGATT
CAGAACCCAGTCAGAGCCCAAGTACAGCTTCGAGTCACTACCTCAGAAAGATTGTTGATCTG
TGGGGATGAAGCATCAGGCTGTATTATGGTGTCCTCACCTGTGGAGCTGTAAGTCTTCTTT
AAAAGGCAATGGAAGGCAGCATAACTATTTATGTGCTGGAAGAAATGACTGCATTGTTGATA

Fig. 9C

AAATCCGCAGGAAAAAAGTCCCCGGGTGTGCGCCTTAGAAAAGTGTGTCAAGCTGGCATGGTCCT
TGGAGGGCGAAAGTTTAAAAAGTTCAATAAAGTCAGAGTCATGAGAGCACTCGATGCTGTGTGCT
CTCCCACAGCCAGTGGGCATTCCAAATGAAAGCCAACGAATCACTTTTCTCCAAGTCAAGAGA
TACAGTTAATTCCCCCTCTAATCAACCTGTTAATGAGCATTTGAACCAGATGTGATCTATGCAGG
ACATGACAAACACAAAGCCTGATACCTCCAGTTCTTTGCTGACGAGTCTTAATCAACTAGGCGAG
CGGCAACTTCTTTCAGTGGTAAAAATGGTCCAAATCTCTCCAGGTTTTCGAAACTTACATATTG
ATGACCAGATAACTCTCATCCAGTATTCTTGGATGAGTTTAATGGTATTTGGACTAGGATGGAG
ATCCTACAAACATGTCAGTGGGCAGATGCTGTATTTTGCACCTGATCTAATATTAAATGAACAG
CGGATGAAAGAAATCATCATTTCTATTCACTATGCCCTTACCATGTGGCAGATACCGCAGGAGTTTG
TCAAGCTTCAAGTTAGCCAAAGAGTTCCTCTGCAATGAAAAGTATTACTACTTCTTAATACAAT
TCCTTTGGAAGGACTAAGAAAGTCAAAGCCAGTTTGAAGAGATGAGATCAAGCTACATTAGAGAG
CTCATCAAGGCAATTGGTTTGAGGCAAAAAGGAGTTGTTTCCAGCTCACAGCGTTTCTATCAGC
TCACAAAACTTCTTGATAACTTGCATGATCTTGTCAAACAACCTTCACCTGTACTGCCCTGAATAC

Fig. 9D

ATTATCCAGTCCCGGCGCTGAGTGTGAATTTCCAGAAATGATGCTGAAGTTATTGCTGCA
CAGTTACCCAGATATTGGCAGGGATGGTGAAACCACCTTCTCTTTCATATAAAGTGAATGTCAA
TTATTTTCAAAGAAATTAAGTGTGTGGTATGTCTTTTCGTTTTGGTCAGGATTATGACGTCTCG
AGTTTTTATAATATTCTGAAAGGGAATTCCTGCAGCCCCGGGATCCACTAGTTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACCTAGAAATGCAGTGAAAAAATG
CTTTATTTGTGAAATTTGTGATGCTATTGCTTTTATTGTAAACCATATAAGCTGCAATAAACAA
GTTAACAAACAATTGCATTTCATTTTATGTTTCAGGTTCAGGGGAGGTGTGGAGGTTTTTT
AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTCTG
GCCGGACCACGCTATCTGTGCAAGTCCCCGACGCGCTCCATGAGCAGAGCGCCCCGCCGCC
GAGGCAAGACTCGGGCGGCGCCCTGCCCGTCCACCAAGTCAACAGGCGGTAAACGGCCTCTTC
ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAATCACTGGAT
ATACCACGTTGATATATCCCAATGGCATCGTAAAGAACAATTTTGAGGCATTTTCAGTCAGTTGC

Fig. 9E

TCAATGTACCTATAACCAGACCGTTCAGCTGCATTAAATGAATCGGCCAACGCCGGGAGAGGC
GGTTTGGGTATTGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTCTGGTTCGGC
TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAATCAGGGGATAA
CGCAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCTTG
CTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCAAAAAATCGACGCTCAAGTCAGA
GGTGCGGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAAGCTCCCTCGTGCG
CTCTCCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCTTCTCCCTTCGGGAAGCGTG
GCGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGTCTGCTCCAAGCTGG
GCTGTGTGCAGAACCCCGTTTCAGCCCCGACCGCTGCGCTTATCCGGTAACTATCGTCTTGA
GTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAAACAGGATTAGCAGA
GCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGCCCTAACTACGGCTACACTAGAA
GGACAGTATTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCGGCAACAAACCCGCTGGTAGCGGTGTTTTTTTGTGTGCAAGCAGCAGATTACG

Fig. 9F

CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTAAATCAATCTAAAGTATATAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCAATCCTAGTTG
CCTGACTCCCCCGTCGTGTAGATAAATAAGATACGGAGGGCTTACCATCTGGCCCCAGTGCTGC
AATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAAACCAGCCAGCCGGA
AGGGCCGAGCGCAGAAAGTGGTCTGCAACTTTATCCGCCCTCCATCCAGTCTATTAAATTGTTGCC
GGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGGCAACGTTGTTGCCATTGCTACAGG
CATCGTGGTGCACGCTCGTTCGTTGGTATGGCTTCATTCAGCTCCGGTTCCTCAACGATCAAGG
CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTAGCTCCTTCGGTCTCCGATCGTTG
TCAGAAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAAATCTCTTAC
TGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAA
TAGTGATGCGGCGACCGAGTTGCTCTTTGCCCGCGGTCAATACGGGATAATAACCGGCCACATA

Fig. 9G

GCAGAACTTTAAAGTGCTCATCATTTGGAAAACGTTCTTCGGGCGGAAACTCTCAAGGATCTT
ACCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCACCCCAACTGATCTTCAGCATCTTTT
ACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAA
GGCGGACACGGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATTGAAGCATTTATCA
GGTTATTGTCTCATGAGCGGATACATATTGAATGTATTTAGAAAAATAAACAAATAGGGGTT
CCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAA
CCTATAAAATAGCGGTATCACGAGGCCCTTTCGTC

Fig. 9H

CTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTA
GGCGTGACGGTGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGGACCTCCATAGAAGACACGGGACCGATCCAGCCTCCGCGGCCCC
GAATTCCGCCCACGACCATGACCATGACCCCTCCACACCAAAGCATCTGGGATGGCCCTACTGCA
TCAGATCCAAGGAAACGAGCTGGAGCCCCTGAACCGTCCGCAGCTCAAGATCCCCCTGGAGCGG
CCCCCTGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCGGTGTACAACTACCCCGAGGCGCG
CCTACGAGTTCAACGCCCGCGGCCGCCCAACGGCAGGTCTACGGTCAGACCGGCTCCCCCTA
CGGCCCCGGGTCTGAGGCTGCGGCGTTTCGGCTCCAACGGCCTGGGGGGTTTCCCCCACTCAAC
AGCGTGTCTCCGAGCCCGCTGATGCTACTGCACCCGCCCGCAGCTGTGCGCTTTCCTGCAGC

Fig. 10A

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCCGAGGGCTACACGGTGGCGGAGGC
CGGCCCGCCGGCATTCTACAGGCCAAATTAGATAAATCGACGCCAGGGTGGCAGAGAAAGATTG
GCCAGTACCAATGACAAGGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAG
TGTGCAATGACTATGCTTCAGGCTACCATTTATGGAGTCTGGTCCCTGTGAGGGCTGCAAGGCCTT
CTTCAAGAGAAGTATTTCAAGGACATAACGACTATATGTGTCCAGCCACCAGTGCAACCATT
GATAAAAACAGGAGGAAGAGCTGCCAGGCCTGCCGGCTCCGCCAAATGCTACGAAGTGGGAATGA
TGAAAGGTGGGATACGAAAAGACCGAAGAGGAGGGAGAATGTTGAAACACAAAGCGCCAGAGAGA
TGATGGGAGGGCAGGGGTGAAGTGGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCA
AGCCCGCTCATGATCAAACGCTCTAAGAAAGAACAGCCTGGCCTTGTCCTGACGGCCGACCAGA
TGGTCATGGCCTTGTTGGATGCTGAGCCCCCATACTCTATTCCGAGTATGATCCTACCAGACC
CTTCAGTGAAGCTTCGATGATGGGCTTACTGACCAACCTGGCAGACAGGAGCTGGTTCACATG
ATCAACTGGGCCAAGAGGGTGCCAGGCTTTGTGATTTGACCCCTCCATGATCAGGTCCACCTTC
TAGAATGTGCCTGGCTAGAGATCCTGATGATTTGTTCTGCTGTGGCGCTCCATGGAGCACCCAGT

Fig. 10B

GAAGCTACTGTTTGCTCCTAACTTGCTCTTGACAGGAACCAAGGAAAATGTGTAGAGGGCATG
GTGGAGATCTTCGACATGCTGCTGGCTACATCATCTCGGTTCCGCATGATGAATCTGCAGGGAG
AGGAGTTTGTGTGCCCTCAAATCTATTATTTTGCTTAATTCTGGAGTGTAACATTTCTGTCCAG
CACCCCTGAAGTCTCTGGAAGAGAGGACCATATCCACCGAGTCCTGGACAAGATCACAGACACT
TTGATCCACCTGATGGCCAAAGGCAGGCCCTGACCCCTGCAGCAGCAGCACCCAGCGGCTGGCCCCAGC
TCCTCCTCATCCTCTCCACATCAGGCACATGAGTAACAAGGCATGGAGCATCTGTACAGCAT
GAAGTGCAAGAACGTGTGCGCCCTCTATGACCTGCTGCTGGAGATGCTGGACGCCCCACCGCCTA
CATGGCCCCACTAGCCGTGGAGGGGCATCCGTGGAGGAGACGGACCAAGCCACTTGGCCACTG
CGGGCTCTACTTCATCGCATTCCTTGCAAAAAGTATTACATCACGGGGGAGGCAGAGGGTTTCCC
TGCCACAGTCTGAGAGCTCCCTGGCGGAATTCGAGCTCGGTACCCGGGGATCCCTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGAACAAACCACAACTAGAAATGCAGTGAAAAAAATG
CTTTATTGTGAAATTTGTGATGCTATTGCTTTATTGTAAACCATTAAGCTGCAATAAACAA
GTTAACAAACAATTGCATTCATTTTATGTTTCAGGTTACGGGGGAGGTGTGGAGGTTTTTTT

Fig. 10C

AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTGTG
GCCGGACCAAGCTATCTGTGCAAGGTCCCCGACGCGCGCTCCATGAGCAGAGCGCCCCGCC
GAGGCAAGACTCGGGCGGCCCTTGCCCGTCCCACCAAGGTCAACAGGCGGTAACCGGCCTCTTC
ATCGGGAATGCGCGCGACCTTCAGCATCGCCGGCATGTCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGCGGAGATTTTCAGGAGCTAAGGAAGCTAAATGGAGAAAAAATCACTGGAT
ATACCACCGTTGATATATCCCAATGGCATCGTAAGAACAATTTGAGGCATTTTCAGTCAGTTGC
TCAATGTACCTATAACAGACCGTTCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGC
GGTTTGCGTATTGGCGCTCTTCCGCTTCCTCGCTCACTGCTGCTGCGTCTCGGTCGTTCCGC
TGCGCGAGCGGTATCAGCTCACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATAA
CGCAGGAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGTTG
CTGGCGTATTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA
GGTGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCCCTCGTGCG
CTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTG

Fig. 10D

GGCCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGTTCGTTGCTCCAAGCTGG
GCTGTGTGCACGAACCCCCCGTTCAGCCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGA
GTCCAAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGTGTAACAGGATTAGCAGA
GGGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGIGGCCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCC GCAAAACAAACCCGCTGGTAGCGGTGTTTTTTTGTGTTGCAAGCAGCAGATTACG
CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGATTTTGGTCATGAGATTATCAAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTCCATCCATAGTTG
CCTGATCCCCGTCGTGTAGATAACTACGATAACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCA
ATGATACCGGAGACCCACGCTCACCCGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAA
GGCCGAGCGCAGAAGTGGTCCCTGCAACTTTTATCCGCCCTCCATCCAGTCTATTAAATTGTTGCCG

Fig. 10E

GGAAGCTAGTAAGTAGTTCGCCAGTTAATAGTTTGGCAACGTTGTTGCCATTGCTACAGGC
ATCGTGGTGTCAAGCTCGTCGTTTGGTATGGCTTCATTACAGCTCCGGTTCCCAACGATCAAGGC
GAGTTACATGATCCCCCAATGTTGTGCAAAAAGCGGTAGCTCCTTCGGTCTCCCGATCGTTGT
CAGAAGTAAGTTGGCCGCAGTGTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACT
GTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAAAT
AGTGTATGGGGCGACCGAGTTGCTCTTGCCCGCGGTCAATACGGGATAATACCGGCCACATAG
CAGAACTTTAAAAGTGCTCATCATTTGGAACCGTTCTTCGGGGCGAAAACTCTCAAGGATCTTA
CCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTA
CTTTCACCAAGCGTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAAATGCCGCAAAAAAGGAAATAAG
GGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTTATGAAGCATTTATCAG
GGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGTTC
CGGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTTATTATCATGACATTAAC
CTATAAAAATAGGCGTATCACGAGGCCCTTTTCGTC

Fig. 10F

FIG. 11

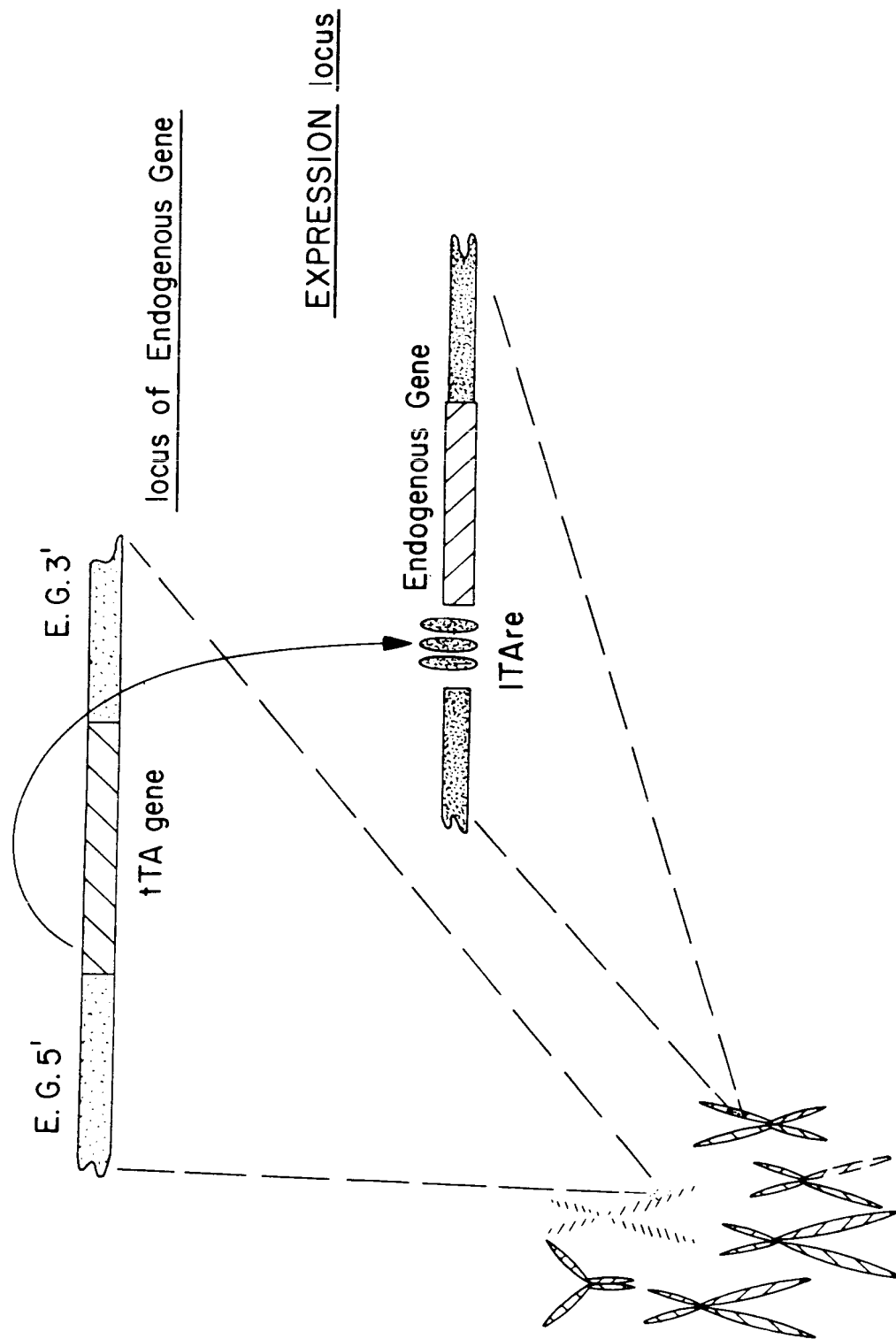


FIG. 12

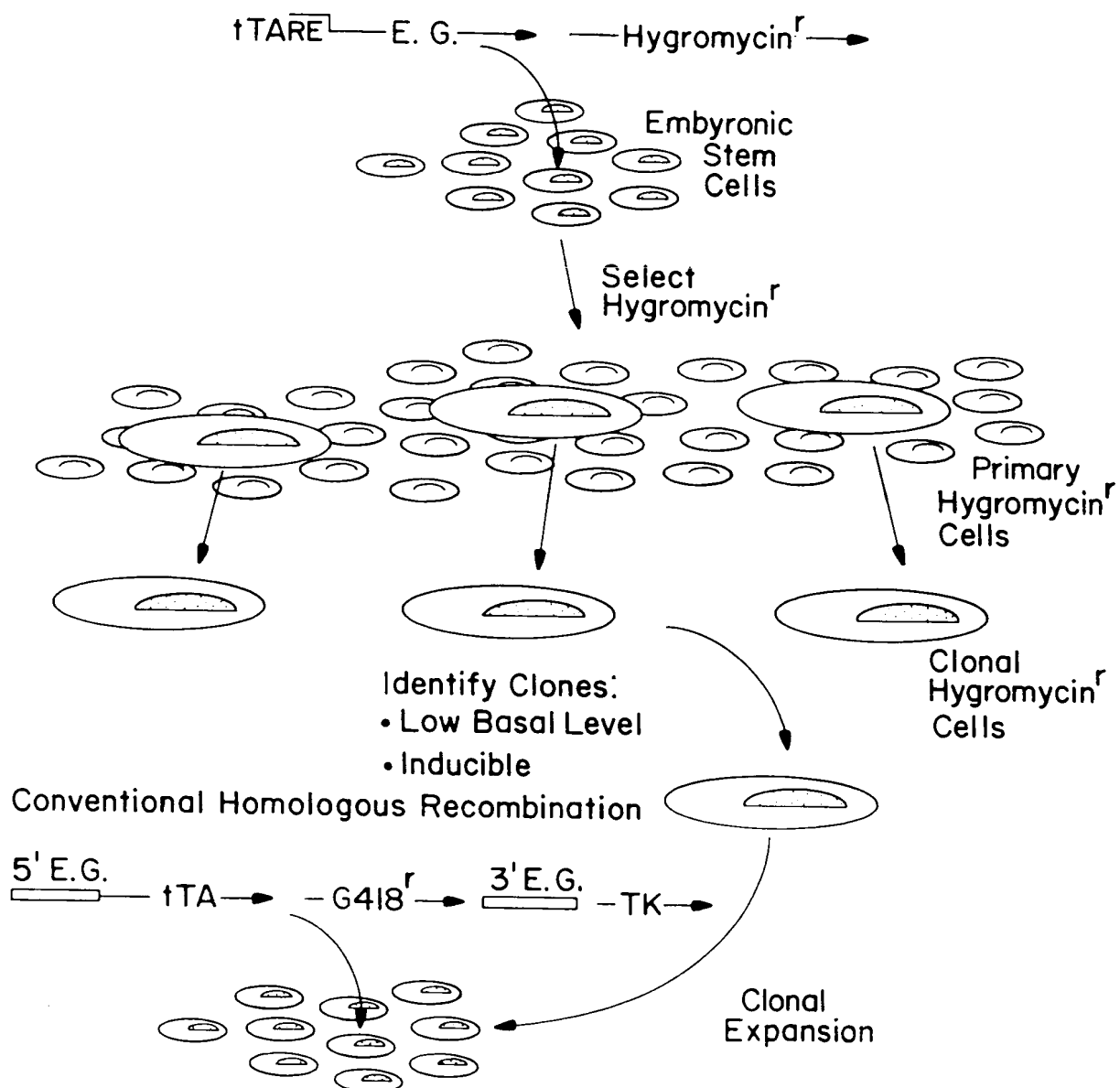


FIG. 13A

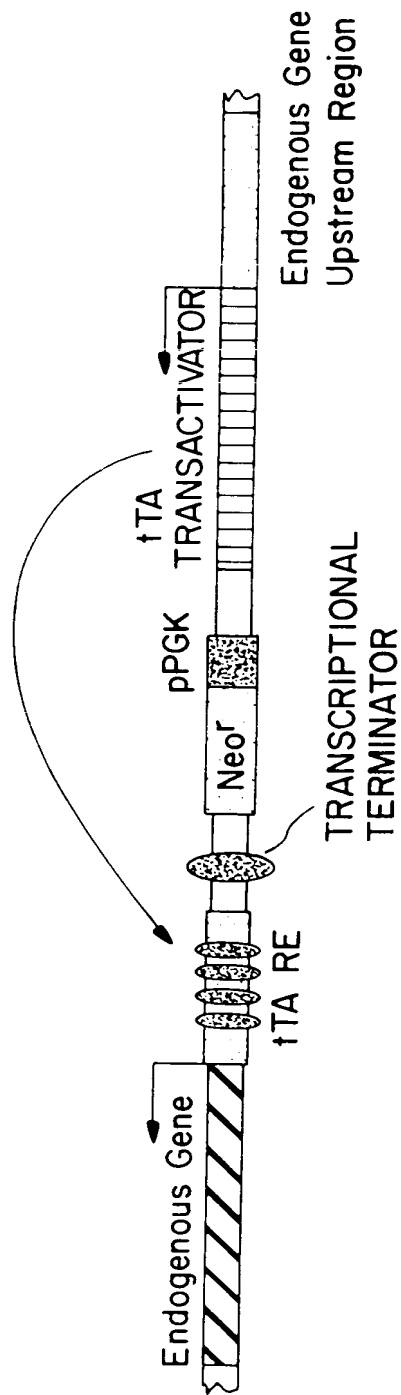


FIG. 13B

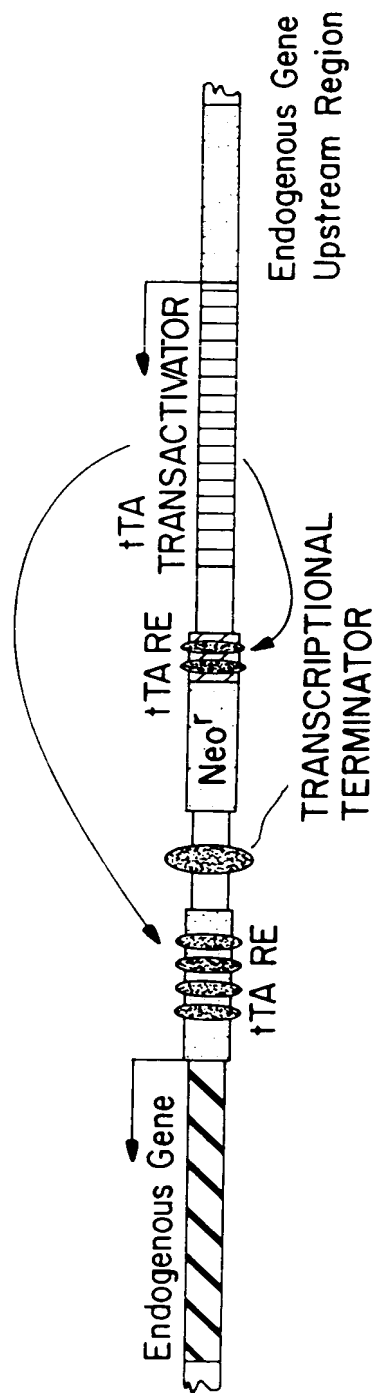


FIG.14

